

GE23131-Programming Using C-2024

Quiz navigation



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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Sunday, 8 December 2024, 6:30 PM
Duration	14 days 23 hours

Question 1

Correct

Marked out of 3.00

Flag question

Write a program that prints a simple chessboard.

Input format:

The first line contains the number of inputs T.
The lines after that contain a different values for size of the chessboard

Output format:

Print a chessboard of dimensions size * size. Print a Print W for white spaces and B for black spaces.

Input:

2
3
5

Output:

WBW
BWB
WBW
WBWBW
BWBWB

WBWBW

BWBWB

WBWBW

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int T,size;
5     scanf("%d",&T);
6     while(T-->0)
7     {
8         scanf("%d",&size);
9         for(int i=0;i<size;i++)
10        {
11            for(int j=0;j<size;j++)
12            {
13                if((i+j)%2==0)
14                {
15                    printf("W");
16                }
17                else
18                {
19                    printf("B");
20                }
21            }
22            printf("\n");
23        }
24    }
25    return 0;
26 }
```

	Input	Expected	Got	
✓	2	WBW	WBW	✓
	3	BWB	BWB	
	5	WBW	WBW	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	

Passed all tests! ✓

Correct

Marked out of
5.00

🚩 Flag question

Let's print a chessboard!

Write a program that takes input:

The first line contains T, the number of test cases

Each test case contains an integer N and also the starting character of the chessboard

Output Format

Print the chessboard as per the given examples

Sample Input / Output

Input:

2

2 W

3 B

Output:

WB

BW

BWB

WBW

BWB

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int T;
5     scanf("%d",&T);
6     while(T--)
7     {
8         int N;
9         char starchar;
10        scanf("%d %c",&N,&starchar);
11        char firstchar=starchar;
```

```

12 char secondchar=(starchar=='B')?'W':'B';
13 for(int i=0;i<N;i++)
14 {
15     for(int j=0;j<N;j++)
16     {
17         if((i+j)%2==0)
18         {
19             printf("%c",firstchar);
20         }
21         else
22         {
23             printf("%c",secondchar);
24         }
25     }
26     printf("\n");
27 }
28 }
29 return 0;
30 }
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45

```

	Input	Expected	Got	
✓	2	WB	WB	✓
	2 W	BW	BW	
	3 B	BWB	BWB	
		WBW	WBW	
		BWB	BWB	

Passed all tests! ✓

Question **3**

Correct

Marked out of

Decode the logic and print the Pattern that corresponds to given input.

7.00

🚩 Flag question

If $N = 3$

then pattern will be :

10203010011012

**4050809

****607

If $N = 4$, then pattern will be:

1020304017018019020

**50607014015016

****809012013

*****10011

Constraints

$2 \leq N \leq 100$

Input Format

First line contains T , the number of test cases

Each test case contains a single integer N

Output

First line print Case # i where i is the test case number

In the subsequent line, print the pattern

Test Case 1

3

3

4

5

Output

Case #1

10203010011012

**4050809

****607

Case #2

1020304017018019020

**50607014015016

****809012013

*****10011

Case #3

102030405026027028029030

**6070809022023024025

****10011012019020021

*****13014017018

*****15016

Answer: (penalty regime: 0 %)

```
1  #include <stdio.h>
2  int main()
3  {
4      int t,n,x,y,z=1,i,ans,c;
5      scanf("%d",&t);
6      while(z<=t)
7      {
8          scanf("%d",&n);
9          printf("Case #%d\n",z);
10         y=1;i=1;c=0;
11         while(y<=n)
12         {
13             x=1;
14             ans=(n*n);
15             ans=ans-c;
16             while(x<=2*n)
17             {
18                 if(x<=n)
19                 {
20                     if(x<y)
21                         printf("***");
22                     else if(x<=n)
23                     {
24                         printf("%d".i*10):
```

```

25         }
26     }
27 }
28 else
29 {
30     if((x+y)==(2*n+1))
31     {
32         printf("%d", (ans+y));
33         ans ++;
34         c ++;
35     }
36     else if(x+y<=(2*n+1))
37     {
38         printf("%d", (ans+y)*10);
39         ans ++;
40         c ++;
41     }
42 }
43 x ++;
44 }
45 y ++;
46 printf("\n");
47 }
48 z ++;
49 }
50 return 0;
51 }
52

```

	Input	Expected	Got	
✓	3	Case #1	Case #1	✓
	3	10203010011012	10203010011012	
	4	**4050809	**4050809	
	5	****607	****607	
		Case #2	Case #2	
		1020304017018019020	1020304017018019020	
		**50607014015016	**50607014015016	
		****809012013	****809012013	
		*****10011	*****10011	
		Case #3	Case #3	
		102030405026027028029030	102030405026027028029030	
		**6070809022023024025	**6070809022023024025	
		****10011012019020021	****10011012019020021	
		*****13014017018	*****13014017018	
		*****15016	*****15016	

Passed all tests! ✓

